

## PATENT COOPERATION TREATY

revised letter  
dated 19/7/05

From the INTERNATIONAL SEARCHING AUTHORITY

PCT

To:

FRANK B. DEHN & CO.  
179 Queen Victoria Street  
London EC4V 4EL  
UNITED KINGDOM

NOTIFICATION OF TRANSMITTAL OF  
THE INTERNATIONAL SEARCH REPORT AND  
THE WRITTEN OPINION OF THE INTERNATIONAL  
SEARCHING AUTHORITY, OR THE DECLARATION

File 81151/03  
27 MAY 2005  
Frank B. Dehn & Co.  
RECEIVED  
ANSD

(PCT Rule 44.1)

Date of mailing  
(day/month/year)

24/05/2005

Applicant's or agent's file reference

44.98.81151/003

FOR FURTHER ACTION

See paragraphs 1 and 4 below

International application No.

PCT/GB2004/004920

International filing date

(day/month/year)

22/11/2004

Applicant

STATOIL ASA

1. ☒ The applicant is hereby notified that the international search report and the written opinion of the International Searching Authority have been established and are transmitted herewith.

**Filing of amendments and statement under Article 19:**

The applicant is entitled, if he so wishes, to amend the claims of the International Application (see Rule 46):

**When?** The time limit for filing such amendments is normally 2 months from the date of transmittal of the International Search Report; however, for more details, see the notes on the accompanying sheet.

**Where?** Directly to the International Bureau of WIPO, 34 chemin des Colombettes  
1211 Geneva 20, Switzerland, Facsimile No.: (41-22) 740.14.35

For more detailed instructions, see the notes on the accompanying sheet.

2. ☐ The applicant is hereby notified that no international search report will be established and that the declaration under Article 17(2)(a) to that effect and the written opinion of the International Searching Authority are transmitted herewith.
3. ☐ **With regard to the protest** against payment of (an) additional fee(s) under Rule 40.2, the applicant is notified that:

☐ the protest together with the decision thereon has been transmitted to the International Bureau together with the applicant's request to forward the texts of both the protest and the decision thereon to the designated Offices.

☐ no decision has been made yet on the protest; the applicant will be notified as soon as a decision is made.

**4. Reminders**

Shortly after the expiration of **18 months** from the priority date, the international application will be published by the International Bureau. If the applicant wishes to avoid or postpone publication, a notice of withdrawal of the international application, or of the priority claim, must reach the International Bureau as provided in Rules 90bis.1 and 90bis.3, respectively, before the completion of the technical preparations for international publication.

The applicant may submit comments on an informal basis on the written opinion of the International Searching Authority to the International Bureau. The International Bureau will send a copy of such comments to all designated Offices unless an international preliminary examination report has been or is to be established. These comments would also be made available to the public but not before the expiration of 30 months from the priority date.

Within **19 months** from the priority date, but only in respect of some designated Offices, a demand for international preliminary examination must be filed if the applicant wishes to postpone the entry into the national phase until **30 months** from the priority date (in some Offices even later); otherwise, the applicant must, **within 20 months** from the priority date, perform the prescribed acts for entry into the national phase before those designated Offices.

In respect of other designated Offices, the time limit of **30 months** (or later) will apply even if no demand is filed within 19 months.

See the Annex to Form PCT/IB/301 and, for details about the applicable time limits, Office by Office, see the *PCT Applicant's Guide*, Volume II, National Chapters and the WIPO Internet site.

Name and mailing address of the International Searching Authority



European Patent Office, P.B. 5818 Patentlaan 2  
NL-2280 HV Rijswijk  
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,  
Fax: (+31-70) 340-3016

Authorized officer

Véronique Baillou

## NOTES TO FORM PCT/ISA/220

These Notes are intended to give the basic instructions concerning the filing of amendments under article 19. The Notes are based on the requirements of the Patent Cooperation Treaty, the Regulations and the Administrative Instructions under that Treaty. In case of discrepancy between these Notes and those requirements, the latter are applicable. For more detailed information, see also the *PCT Applicant's Guide*, a publication of WIPO.

In these Notes, "Article", "Rule", and "Section" refer to the provisions of the PCT, the PCT Regulations and the PCT Administrative Instructions, respectively.

### INSTRUCTIONS CONCERNING AMENDMENTS UNDER ARTICLE 19

The applicant has, after having received the international search report and the written opinion of the International Searching Authority, one opportunity to amend the claims of the international application. It should however be emphasized that, since all parts of the international application (claims, description and drawings) may be amended during the international preliminary examination procedure, there is usually no need to file amendments of the claims under Article 19 except where, e.g. the applicant wants the latter to be published for the purposes of provisional protection or has another reason for amending the claims before international publication. Furthermore, it should be emphasized that provisional protection is available in some States only (see *PCT Applicant's Guide*, Annexes B1 and B2).

The attention of the applicant is drawn to the fact that amendments to the claims under Article 19 are not allowed where the International Searching Authority has declared, under Article 17(2), that no international search report would be established (see *PCT Applicant's Guide*, Volume I/A, paragraph 296).

#### What parts of the international application may be amended?

Under Article 19, only the claims may be amended.

During the international phase, the claims may also be amended (or further amended) under Article 34 before the International Preliminary Examining Authority. The description and drawings may only be amended under Article 34 before the International Examining Authority.

Upon entry into the national phase, all parts of the international application may be amended under Article 28 or, where applicable, Article 41.

#### When?

Within 2 months from the date of transmittal of the international search report or 16 months from the priority date, whichever time limit expires later. It should be noted, however, that the amendments will be considered as having been received on time if they are received by the International Bureau after the expiration of the applicable time limit but before the completion of the technical preparations for international publication (Rule 46.1).

#### Where not to file the amendments?

The amendments may only be filed with the International Bureau and not with the receiving Office or the International Searching Authority (Rule 46.2).

~~Where a demand for international preliminary examination has been/is filed, see below.~~

#### How?

Either by cancelling one or more entire claims, by adding one or more new claims or by amending the text of one or more of the claims as filed.

A replacement sheet must be submitted for each sheet of the claims which, on account of an amendment or amendments, differs from the sheet originally filed.

All the claims appearing on a replacement sheet must be numbered in Arabic numerals. Where a claim is cancelled, no renumbering of the other claims is required. In all cases where claims are renumbered, they must be renumbered consecutively (Administrative Instructions, Section 205(b)).

**The amendments must be made in the language in which the international application is to be published.**

#### What documents must/may accompany the amendments?

##### Letter (Section 205(b)):

The amendments must be submitted with a letter.

The letter will not be published with the international application and the amended claims. It should not be confused with the "Statement under Article 19(1)" (see below, under "Statement under Article 19(1)").

**The letter must be in English or French, at the choice of the applicant. However, if the language of the international application is English, the letter must be in English; if the language of the international application is French, the letter must be in French.**

## PATENT COOPERATION TREATY

## PCT

## INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference <b>44.98.81151/003</b>	<b>FOR FURTHER ACTION</b> see Form PCT/ISA/220 as well as, where applicable, item 5 below.	
International application No. <b>PCT/GB2004/004920</b>	International filing date (day/month/year) <b>22/11/2004</b>	(Earliest) Priority Date (day/month/year) <b>21/11/2003</b>
Applicant  <b>STATOIL ASA</b>		

This International Search Report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This International Search Report consists of a total of 6 sheets.

☐ It is also accompanied by a copy of each prior art document cited in this report.

**1. Basis of the report**

- a. With regard to the **language**, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.

☐ The international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)).

- b. ☐ With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application, see Box No. I.

2. ☐ **Certain claims were found unsearchable** (See Box II).

3. ☒ **Unity of invention is lacking** (see Box III).

4. With regard to the **title**,

☐ the text is approved as submitted by the applicant.

☒ the text has been established by this Authority to read as follows:

**METHOD AND APPARATUS FOR THE PRODUCTION OF PARTICULATE CARBON PRODUCTS**

5. With regard to the **abstract**,

☒ the text is approved as submitted by the applicant.

☐ the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box No. IV. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.

6. With regard to the **drawings**,

- a. the figure of the **drawings** to be published with the abstract is Figure No. 1

☒ as suggested by the applicant.

☐ as selected by this Authority, because the applicant failed to suggest a figure.

☐ as selected by this Authority, because this figure better characterizes the invention.

- b. ☐ none of the figures is to be published with the abstract.

# INTERNATIONAL SEARCH REPORT

International application No.  
PCT/GB2004/004920

## Box II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☐ Claims Nos.:  
because they relate to subject matter not required to be searched by this Authority, namely:
  
2. ☐ Claims Nos.:  
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
  
3. ☐ Claims Nos.:  
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

## Box III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

see additional sheet

1. ☐ As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
  
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
  
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
  
4. ☒ No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

1 - 30

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
- ☐ No protest accompanied the payment of additional search fees.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. claims: 1-30

Method and reactor capable of producing particulate carbon material using a fluidized catalyst.

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2. claims: 31-36

Reactor with a plurality of reaction surfaces.

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3. claims: 37-43

Reactor with a plurality of gas inlet ports disposed so as to introduce inlet gas directly into the reaction bed.

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## INTERNATIONAL SEARCH REPORT

International Application No

PCT/GB2004/004920

## A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 D01F9/127 C01B31/02 C01B3/26 B01J8/02 B01J8/12  
 B01J8/28 B01J8/00 B01J19/02

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 D01F C01B B01J

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 03/066521 A (CARBON NANOTECH RESEARCH INSTITUTE INC; NISHIMURA, KUNIO; MAENO, HIROM) 14 August 2003 (2003-08-14) abstract; figure 1 -& DATABASE WPI Section Ch, Week 200425 Derwent Publications Ltd., London, GB; Class E36, AN 2003-679523 XP002319311 & AU 2002 233 631 A1 (CARBON NANOTECH RES INST INC) 2 September 2003 (2003-09-02) abstract	1-3,7-30
X	DE 199 54 225 A1 (KANZOW, HENNING) 23 May 2001 (2001-05-23)  column 5, line 13 - line 37; figure 1 column 3, line 50 - column 4, line 51  ----- -/--	1,3, 5-20, 25-30

☒ Further documents are listed in the continuation of box C.☒ Patent family members are listed in annex.

## \* Special categories of cited documents :

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier document but published on or after the international filing date

"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

"&amp;" document member of the same patent family

Date of the actual completion of the international search

28 February 2005

Date of mailing of the international search report

24.05.05

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2  
 NL - 2280 HV Rijswijk  
 Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,  
 Fax: (+31-70) 340-3016

Authorized officer

Marucci, A

## INTERNATIONAL SEARCH REPORT

International Application No

PCT/GB2004/004920

## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	EP 1 277 858 A (NIKKISO COMPANY LIMITED) 22 January 2003 (2003-01-22) paragraph [0033] - paragraph [0062]; figures	1,3-20, 25-30
X	----- WO 02/092506 A (CAMBRIDGE UNIVERSITY TECHNICAL SERVICES LIMITED; SHAFFER, MILO) 21 November 2002 (2002-11-21) page 3, line 18 - page 4, line 21; example 1 page 9, line 15 - line 28 page 10, line 19 - line 26	1,3-20, 25-30
X	----- M.S. DRESSELHAUS ET AL: "GRAPHITE FIBERS AND FILAMENTS" 1988, SPRINGER-VERLAG, BERLIN-HEIDELBERG , XP002319310 page 28, line 17 - page 29, line 12; figure 2.15a	1-3,5-30
A	----- PATENT ABSTRACTS OF JAPAN vol. 2003, no. 09, 3 September 2003 (2003-09-03) -& JP 2003 146633 A (NATIONAL INSTITUTE OF ADVANCED INDUSTRIAL & TECHNOLOGY; SHOWA DENKO KK), 21 May 2003 (2003-05-21) abstract; figure 1	1-30
A	----- US 2003/190277 A1 (MOY DAVID ET AL) 9 October 2003 (2003-10-09) the whole document	1-30
A	----- US 2003/129122 A1 (CHEN PING ET AL) 10 July 2003 (2003-07-10) paragraphs [0033] - [0035]; figure 1	1-30

# INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No  
PCT/GB2004/004920

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
WO 03066521	A	14-08-2003	WO 03066521 A1	14-08-2003
			AU 2002233631 A1	02-09-2003
AU 2002233631	A1	02-09-2003	WO 03066521 A1	14-08-2003
DE 19954225	A1	23-05-2001	NONE	
EP 1277858	A	22-01-2003	JP 2001073231 A	21-03-2001
			JP 2001115342 A	24-04-2001
			EP 1277858 A1	22-01-2003
			US 6878360 B1	12-04-2005
			CN 1376218 A	23-10-2002
			WO 0116414 A1	08-03-2001
WO 02092506	A	21-11-2002	EP 1390294 A1	25-02-2004
			WO 02092506 A1	21-11-2002
			JP 2004525853 T	26-08-2004
			US 2004234444 A1	25-11-2004
JP 2003146633	A	21-05-2003	JP 3404543 B1	12-05-2003
US 2003190277	A1	09-10-2003	US 6221330 B1	24-04-2001
			AU 749639 B2	27-06-2002
			AU 8683498 A	22-02-1999
			CA 2299466 A1	11-02-1999
			EP 1002147 A1	24-05-2000
			JP 2001512087 T	21-08-2001
			WO 9906618 A1	11-02-1999
			US 6827919 B1	07-12-2004
			AU 1603300 A	22-05-2000
			CA 2350099 A1	11-05-2000
			CN 1373736 A	09-10-2002
			EP 1137593 A1	04-10-2001
			JP 2004517789 T	17-06-2004
			WO 0026138 A1	11-05-2000
			US 2004223901 A1	11-11-2004
			US 6761870 B1	13-07-2004
			CA 2296962 A1	27-07-2000
US 2003129122	A1	10-07-2003	NONE	



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